CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No: CTCE/BBMP/KGHG/W.No.15/CC Tiles/2018-19 25.04.2018

TEST REPORT ON CHEQUERED CEMENT CONCRETE TILES

* Customer	: **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
* Agency	: **Mr. K.G. Honne Gowda** #1279, 9th Main, 2nd Stage, Nagapura Road, Bangalore.
* Name of the Work	: Construction of public toilet near NH 1st main Kempegowda Nagara Strom Water Drain in Ward No.15 T. Dasarahalli Zone, BBMP, Bangalore
* Reference	: EE/DD/WO/120/2016-17 Dated : 28.01.2017
* Sample ID	: Chequered Cement Concrete Tiles
No of tiles tested	: 12 No's
Technical Reference	: IS 13801:2013 (First revision)(RA-2013)
Date of Testing	: 25.04.2018

I. DIMENSIONS TEST:

Sl. No.	Test Result			Requirement as per IS: 13801:2013 (First revision)(RA-2013)
	Length (mm)	Breadth (mm)	Thickness (mm)	
1	300	300	25.30	1. length or breadth of tiles shall be ±1 mm 2. Thickness shall be +15 percent of the minimum thickness
2	300	300	25.20	
3	300	300	25.33	
4	300	300	25.65	
5	300	300	26.13	
6	300	300	26.18	

II. WATER ABSORPTION

Sl. No.	Size of Tiles	Water absorption of tiles (%)	Average (% by Wt)	Requirement as per IS: 13801:2013 (First revision)(RA-2013)
1	300x300x25.1	2.2	2.45	The average percentage of water absorption shall not exceed 10
2	300x300x25.2	2.5		
3	300x300x25.3	2.3		
4	300x300x25.1	2.4		
5	300x300x25.6	2.6		
6	300x300x25.5	2.7		

*Information is furnished by the Customer/Representative

Note:

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- The results indicated above are based on the tests carried out on the samples received in the laboratory.
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Civil-tech Consultants & Engineers
#23/14, 7th Cross, 3rd Stage, 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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T-2377

CTCE/BBMP/KGHG/W.No.15/CSR-03/586c/Bricks/2017-18 15.03.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF BRICKS

* Customer	: Asst. Executive Engineer, Project Sub Division, BBMP, Bangalore
* Agency	: Mr. K.G. Honne Gowda #1279, 9th Main, 2nd Stage, Nagapura Road, Bangalore
* Name of work	: Construction of public toilet near NH 1st main Kempegowda Nagara Storm Water Drain in Ward No.15 T. Dasarahalli Zone, BBMP, Bangalore
* Reference	: EE/DD/WO/120/2016-17 Dated : 28.01.2017
* Sample ID	: Bricks
Technical Reference	: IS : 3495 (Part-1) 1992 (RA-2011)
Sample Received on	: 12.03.2018
Date of Testing	: 15.03.2018

Sl.No.	Size of Bricks are in mm	Weight of Bricks in gms	Failure load in KN	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)	Class Designation (As per IS: 1077:1995 Table 1)
1	220x100x75	3436.00	115.2	5.24	5.15	6.0
2	220x100x75	3418.00	112.9	5.13		
3	220x100x75	3542.00	110.7	5.03		
4	220x100x75	3463.00	114.8	5.22		
5	220x100x75	3452.00	112.5	5.11		

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VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No: CTCE/BBMP/KGHG/W.No.15/CSR-03/586c/Bricks/2017-18 15.03.2018

TEST REPORT ON WATER ABSORPTION OF BRICKS

* Customer	:	Asst. Executive Engineer, Project Sub Division, BBMP, Bangalore
* Agency	:	Mr. K.G. Honne Gowda #1279, 9th Main, 2nd Stage, Nagapura Road, Bangalore.
* Name of the work	:	Construction of public toilet near NH 1st main Kempegowda Nagara Strom Water Drain in Ward No.15 T. Dasarahalli Zone, BBMP, Bangalore.
* Reference	:	EE/DD/WO/120/2016-17 Dated : 28.01.2017
* Sample ID	:	Bricks
Technical Reference	:	IS: 3495(Part-2)- 1992 (RA-2011)
Sample Received on	:	12.03.2018
Date of Testing	:	15.03.2018

Sl.No	Size of Bricks in mm	Dry weight in gms	Wet weight in gms	Water Abosorption in %	Average Water Absorption in %	Allowable Water absorption as per IS: 1077:1995 Clause 7.2)
1	220x100x75	2952	3285	11.28	11.31	Not exceeding 20%
2	220x100x75	2949	3296	11.77		
3	220x100x75	2950	3288	11.46		
4	220x100x75	2938	3279	11.61		
5	220x100x75	2982	3294	10.46		

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Job No: CTCE/BBMP/KGHG/W.No.15/GSWPipe/2017-18 22.03.2018

TEST REPORT ON GLAZED STONEWARE PIPE

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K.G. Honne Gowda** #1279, 9th Main, 2nd Stage, Nagapura Road, Bangalore.
* Name of work	:	Construction of public toilet near NH 1st main Kempegowda Nagara Strom Water Drain in Ward No.15 T. Dasarahalli Zone, BBMP, Bangalore.
* Reference	:	EE/DD/WO/120/2016-17 Dated. 28.01.2017
* Sample ID	:	Glazed Stoneware Pipe(150mm dia)SP-1 Class
Technical Reference	:	IS-651:2007 (VI revision)
Date of Testing	:	22.03.2018

Sl no	Internal Diameter	Thickness of Pipe	% absorption	% of Acid Resistance	Crushing Strength kN/m
1	150mm	12mm	4.4	1.76	17.25
2	150mm	12mm	4.5	1.87	17.63
3	150mm	12mm	4.3	1.84	18.55
Requirements as per IS-651:2007(VI Revision)	-----	----	Maximum 6%	Not Exceed 2.5%	Minimum 16kN/m

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